

# INTRODUCTION

- **Shri. B.B.T.THAM (BOTANIST)**
- **BOTANICAL SURVEY OF INDIA (BSI),  
ARUNACHAL PRADESH REGIONAL CENTRE (APRC)**
- **JOINED BSI IN 1999**
- **GARDEN OVERSEER: 1999-2011, EBG, BSI-ERC**
- **BOTANIST: 2011-PRESENT, BSI, APRC**

# PhD PROPOSAL

“FLORISTIC DIVERSITY OF PAKKE TIGER RESERVE AND  
WILDLIFE SANCTUARY”



**NOT YET A RESEARCH SCHOLAR**



**GARDEN OVERSEER  
EBG, BSI-ERC  
1999-2011**

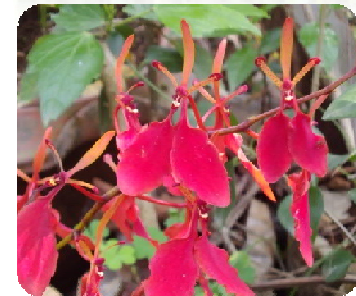
- **EX-SETU COSERVATION THROUGH GERMPLASM COLLECTION**
- **EXPLORATION CUM LIVE PLANTS COLLECTION TOUR**
- **DOCUMENTATION OF PHENOLOGY OF GARDEN PLANTS**

# TOURS CONDUCTED DURING MY TENURE AS A GARDEN OVERSEER

SL. NO.	AREAS COVERED	YEAR
1	WEST KHASI HILLS DISTRICT, MEGHALAYA	2000
2	EAST KHASI HILLS DISTRICT, MEGHALAYA	2002
3	TUENSENG DISTRICT, NAGALAND	2003
4	DIBANG VALLEY, ARUNACHAL PRADESH	2004
5	WEST KHASI HILLS DISTRICT, MEGHALAYA	2006
6	MAMIT DISTRICT, MIZORAM	2007
7	BISHENPUR AND TAMENGLONG DISTRICTS, MANIPUR	2007
8	SENAPATI AND UKHRUL DISTRICTS, MANIPUR	2008
9	MAPPING MEDICINAL AND AROMATIC PLANTS BY APPLICATION OF REMOTE SENSING USING GIS WITH FOREST DEPTT. IN RI-BHOI DISTRICT, MEGHALAYA	2009
10	RI-BHOI DISTRICT, MEGHALAYA	2009

## RET/ENDEMIC/MEDICINAL SPECIES COLLECTED

NAME	FAMILY	STATUS/PROPERTIES
<i>Nepenthes khasiana</i> Hk.f.	Nepenthaceae	RET/Endemic
<i>Kaempferia rotunda</i> L.	Zingiberaceae	Medicinal
<i>Paphiopedulum venustum</i> (Wall. ex Sims)Pfitzer	Orchidaceae	RET
<i>Gaultheria fragrantissima</i> Wall.	Ericaceae	Medicinal
<i>Rhododendron macabeanum</i> Watt ex Balf.f.	Ericaceae	RET/Endemic
<i>Renanthera imschootiana</i> Rolfe	Orchidaceae	RET
<i>Coptis teeta</i> Wall.	Ranunculaceae	RET/Medicinal
<i>Anoectochilus roxburghii</i> (Wall.)Lindl.	Orchidaceae	RET
<i>Rhododendron formosum</i> Wall.	Ericaceae	RET
<i>Hedychium calcaratum</i> A.S.Rao&D.M.Verma	Zingiberaceae	RET/Medicinal
<i>Lilium mackliniae</i> Sealy	Liliaceae	RET/Endemic



# NEW INTRODUCTION TO THE EXPERIMENTAL BOTANIC GARDEN



NAME	FAMILY	STATUS/PROPERTY
<i>Magnolia punduana</i> (hk.f. & Thomson) Figlar	Magnoliaceae	RET
<i>Impatiens acuminata</i> Benth.	Balsaminaceae	RET/Endemic
<i>Micromelum integerrimum</i> (Buch.-Ham. ex DC.) Wight & Arn. ex Roem.	Rutaceae	RET/Medicinal
<i>Primula sikkimensis</i> Hook.	Primulaceae	RET
<i>Platyterium wallichii</i> Hook.	Polypodiaceae	RET
<i>Panax bipinnatifidus</i> Seem.	Araliaceae	RET/Medicinal
<i>Rosa clinophylla</i> Redout, & Thory	Rosaceae	RET
<i>Hevea brasiliensis</i> (Willd. Ex A.Juss.) Mull.-Arg.	Euphorbiaceae	Economic Imp.
<i>Ziziphus jujube</i> Mill.	Rhamnaceae	RET



A view of Pakke Tiger Reserve, Arunachal Pradesh

## BOTANIST BSI - APRC 2011-PRESENT

- A. **FLORA OF PAKKE TIGER RESERVE & WLS : A.A.MAO, P. SATYANARAYAN & B.B.T.THAM**
  
- B. **INTRODUCTION, CONSERVATION OF GERMPASM OF MUSA, BAMBOOS & ZINGIBERS AND DOCUMENTATION OF PHENOLOGY OF GARDEN PLANTS**

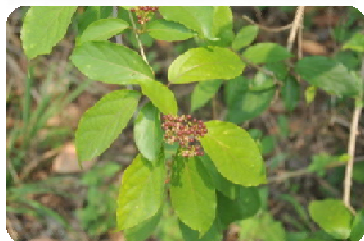
# FLORA OF PAKKE TIGER RESERVE & WLS



*Morinda angustifolia* Roxb.,



*Strobilanthes simonsii* T. Anderson



*Embelia floribunda* Wall.

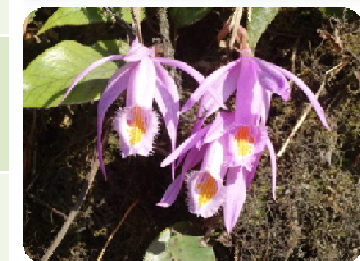
No. of Herbarium Tours undertaken:

1. Herbarium tour to ASSAM Herbarium, BSI/ERC, Shillong, 130 species identified.

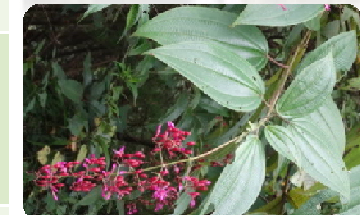
Quarter	Period	Field Nos.
Q1	24/04/2012 - 08/05/2012	(35001-35305), 305 Nos.
Q3	23/11/2012 - 02/12/2012	(35306-35514), 209 Nos.
Q2	19/09/2013 - 02/10/2013	(35515-35718), 204 Nos.
Q4	25/03/2014 - 08/04/2014	(35719-35892), 174 Nos.
Q3	21/10/2014 - 11/11/2014	(35893-36037), 145 Nos.
<b>Total:</b>		<b>1037 FIELD NUMBERS</b>



*Chassalia ophioxylodes* (Wall.) Crai



*Pleione praecox*(Sm.) D. Don,



*Anplectrum assamicum*C. B. Clark

No. of Herbarium Tours undertaken:

2. Herbarium tour to ASSAM Herbarium, BSI/ERC, Shillong, 185 species identified.



# ANALYSIS OF SPECIES DISTRIBUTION

Groups	Families	Genera	Species
Pteridophytes	12	12	13
Gymnosperms	1	1	1
Angiosperms			
Dicots	95	293	439
Monocots	14	78	111
Totals	122	384	564

# FEW EXAMPLES OF RET SPECIES



*Dendrobium farmeri* Paxton



*Galeola nudifolia* Lour

NAME	FAMILY
<i>Helminthostachys zeylanica</i> (L.) Hook.	Ophioglossaceae
<i>Angiopteris evecta</i> (Forst.) Hoffm.,	Angiopteridaceae
<i>Cissus adnata</i> Roxb.,	Vitaceae
<i>Desmos longiflorus</i> (Roxb.) Saff.	Annonaceae
<i>Pyrenaria khasiana</i> R. N. Paul,	Theaceae
<i>Neillia thyrsoiflora</i> D. Don,	Rosaceae
<i>Kydia calycina</i> Roxb.,	Malvaceae
<i>Ophiorrhiza subcapitata</i> Wall. ex Hook.f.	Rubiaceae
<i>Carex atherodes</i> Spreng.	Cyperaceae
<i>Dendrobium farmeri</i> Paxton	Orchidaceae
<i>Galeola nudifolia</i> Lour.	Orchidaceae

# INTRODUCTION, CONSERVATION OF GERMPLASM OF MUSA, BAMBOOS & ZINGIBERS



*Hedychium densiflorum* L.

NAME	FAMILY
<i>Musa kamengensis</i> Gogoi & Hakkinen	Musaceae
<i>Musa cheesmanii</i> N.W.Simmonds	Musaceae
<i>Musa nagensium</i> Prain.	Musaceae
<i>Musa mannii</i> H.Wendl. ex Baker	Musaceae
<i>Hedychium densiflorum</i> L.	Zingiberaceae
<i>Hedychium spicatum</i> Sm.	Zingiberaceae
<i>Hedychium villosum</i> Wall.	Zingiberaceae



## ADMINISTRATIVE WORKS

1. **PERFORMED DDO DUTIES FROM TIME TO TIME**
2. **PRESENTLY ACTING AS STORE-IN-CHARGE IN THE OFFICE**
3. **MEMBER OF PURCHASE COMMITTEE**
4. **ASSISTANCE TO H.O.O. FROM TIME TO TIME AS WHEN REQUIRED**
5. **GARDEN IN CHARGE**

## NUMBER OF PROJECTS UNDERTAKEN

1. FLORA OF PAKKE TIGER RESERVE & WLS - **A.A.MAO, P.SATYANARAYANAN & B.B.T.THAM**
2. EX-SETU COSERVATION THROUGH GERMPLASM COLLECTION OF MUSA, ZINGIBERACEAE & BAMBOOS - **B.B.T.THAM**

## PAPERS PUBLISHED

1. **Odyuo. N. & B.B.T.Tham. 2008.** Dampa Tiger Reserve. In Floristic Diversity of tiger Reserves of India. BSI, Kolkata. pp. 394-415.
2. **Singh.Bikarma, B.B.T.Tham & N.N.Rabha. 2010.** Taxonomical notes on *Amorphophallus paeoniifolius* (Dennst.) Nicolson var. *campanulatus* (Decne.)Sivadasan (Gigantic Flower): A new record for Meghalaya. J.Econ. Bot. Vol. 34 No 3 (2010)
3. **Gogoi. Rajib, B.B.T.Tham & A.A.Mao. 2014.** *Arisaema bannaense* and *Arisaema linguyense* (Araceae), Two Additions to the Flora of India. J. Jpn. Bot. 89: 17-21(2014)

## NEW REPORTS

1. ***Amorphophallus paeoniifolius*** (Dennst.) Nicolson var. ***campanulatus*** (Decne.)Sivadasan: New report for Meghalaya
2. ***Arisaema bannaense*** H. Li: New report for India



**FUTURE PLAN  
STUDY OF FLORICULTURE POTENTIAL  
WILD SPECIES IN THE STATE OF  
MEGHALAYA**

**THANK YOU**

